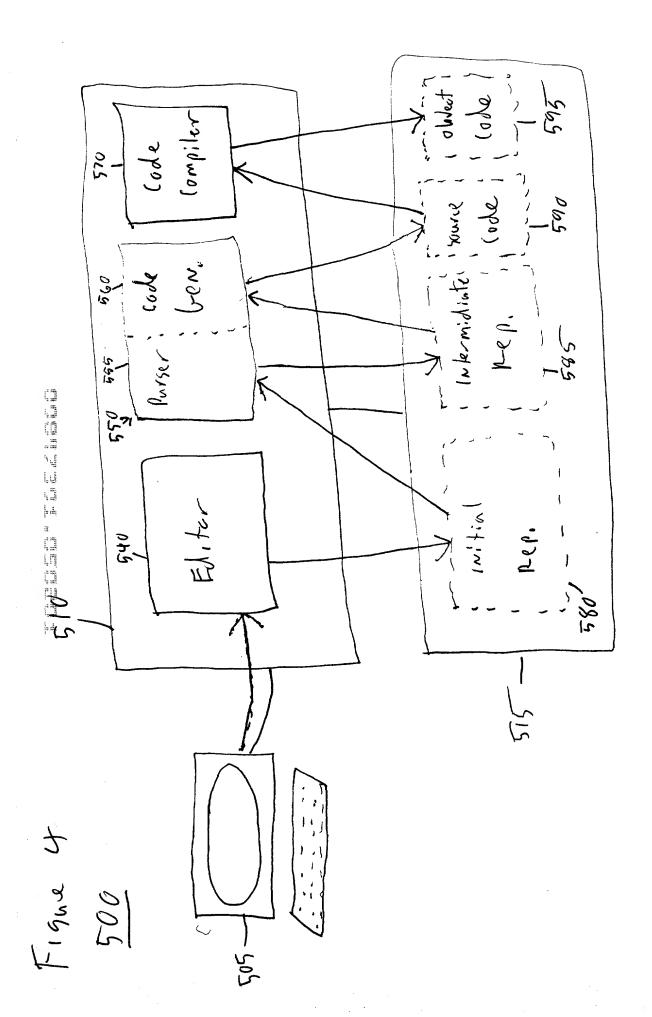


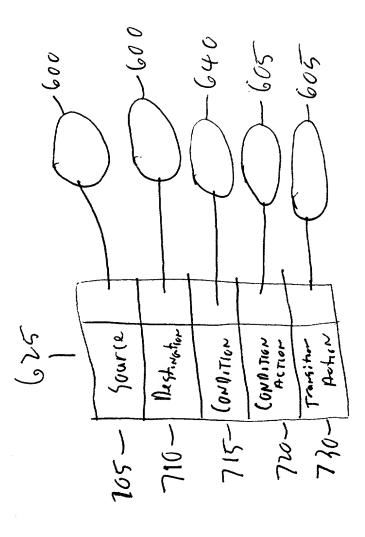
Figure 2

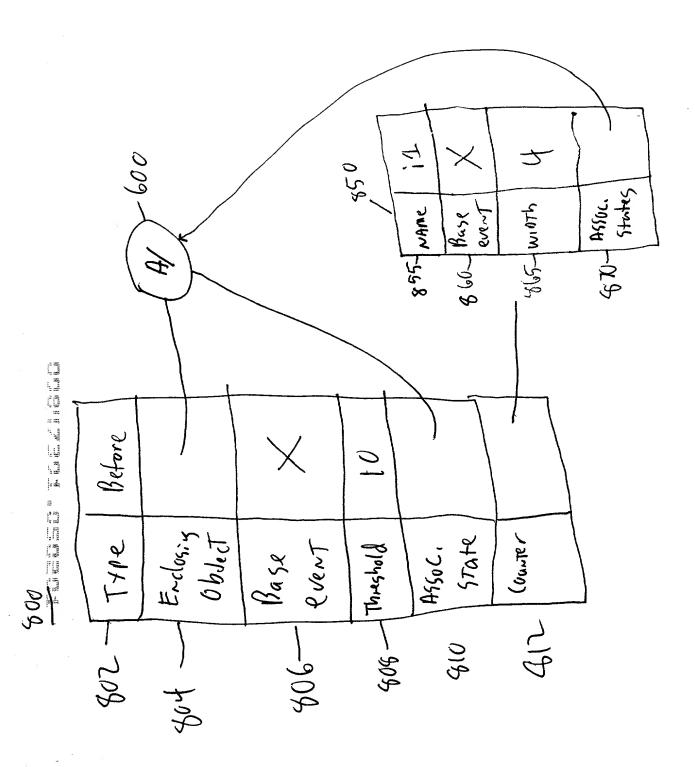
(after (5,E) (#/ On X; status (X has occurred ') On hetere(10,x'); status ('st:11 under lim:t')



549 1,620 605 exturn -650 TRANS-Fram French TRANS-TO During Exit Decomp

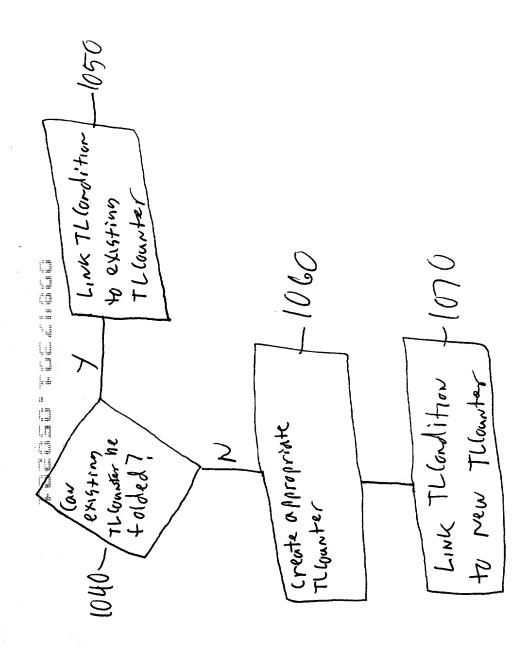
Fin. 5



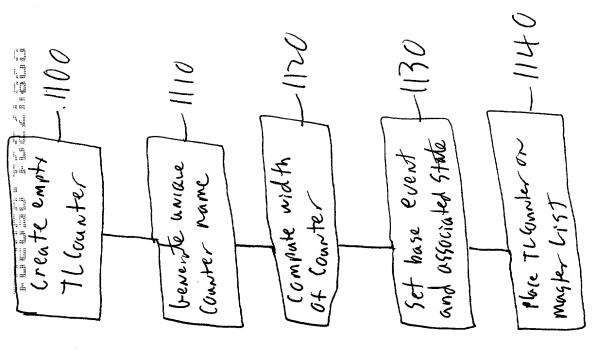


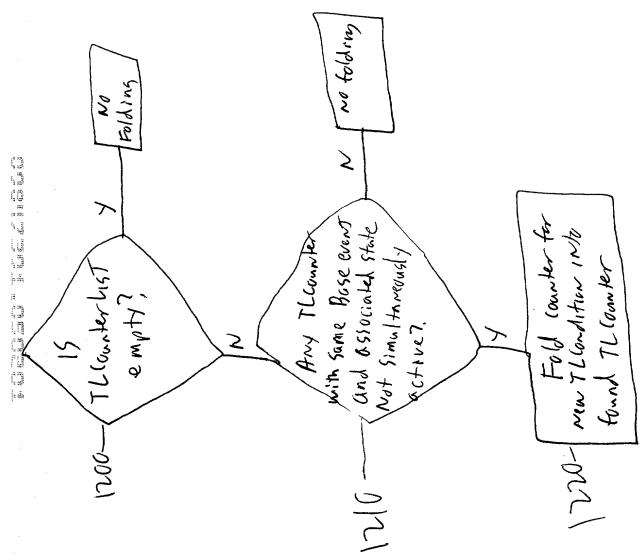
Polge &xpreque q00 ohlo-Determine associated +925 state appropriate Theomber Ubject Live Theodothor to Assciral State Fill in Thoughton Object with parsed data LINK TLEONDITION to creak empts Thloudition Object Parts

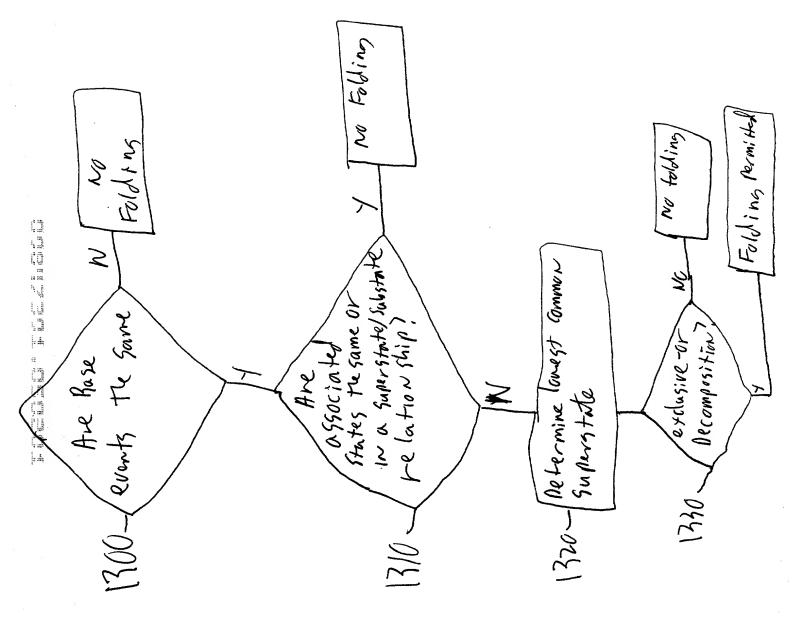
Fig. 9

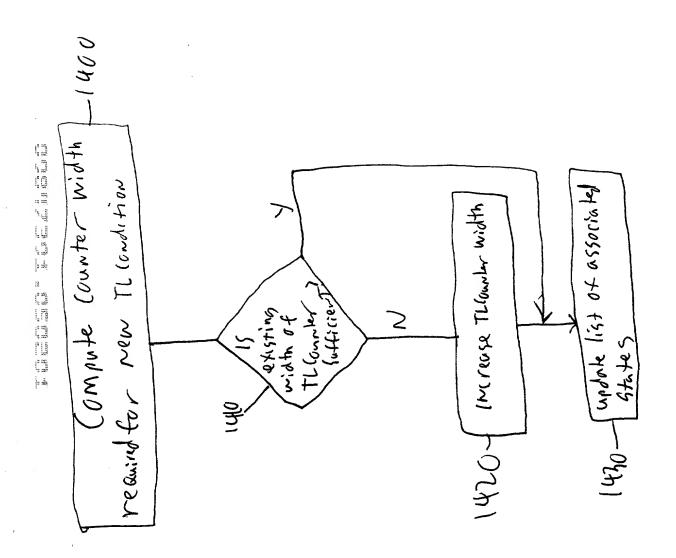


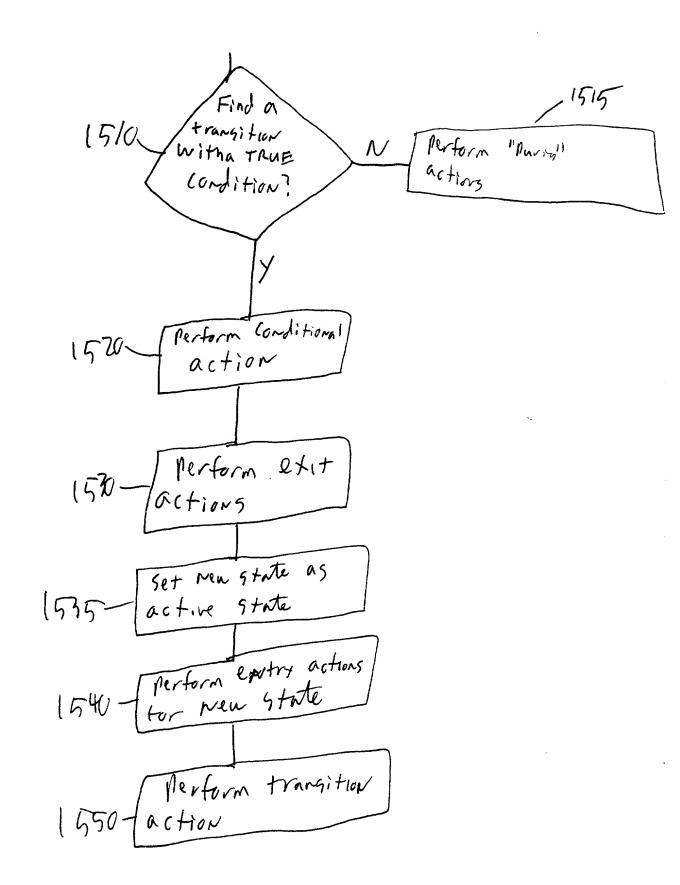
Kig. 10











bereate lode to
Initialize variable
when state is entered

beneate lode to
increment variable
whenever hase event
0 cours

beneate lode for
testing counter variable
testing counter variable

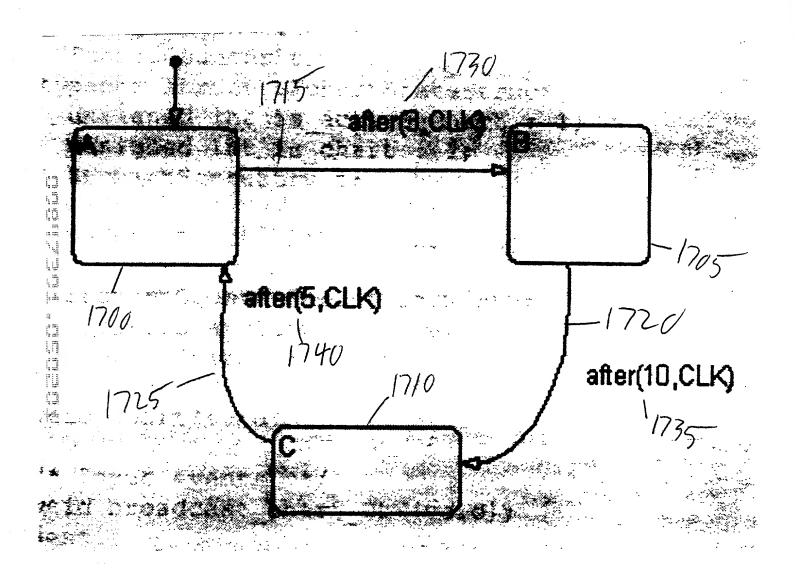


Figure 17

```
* Stateflow code generation for chart:
       temporal example/Chart
  * Target Name
                                         : target
  * Model Version
                                         : 1.188
  * Stateflow Version
                                         : 4.0.3.12.00.1.000000
  * Date of code generation
                                         : 26-Mar-2001 12:31:13
 */
#ifndef __chart_h_
#define chart h
typedef struct SFchartCounterStruct(
  unsigned int i1 : 4;
}SFchartCounterStruct;
typedef struct SFchartStateStruct{
  unsigned int is_active_chart : 1;
  unsigned int is_chart : 2;
} SFchartStateStruct;
typedef struct SFchart_InstanceStruct {
  SFchartCounterStruct Counters;
  SFchartStateStruct State;
} SFchartInstanceStruct;
void chart (void); } (440
/* Input events: */
void broadcast_chart_CLK(void); + 1410
#endif
```

```
temporal_example/Chart
                                              : target
       Target Name
                                              : 1.188
      * Model Version
                                              : 4.0.3.12.00.1.000000
      Stateflow Version
                                              : 26-Mar-2001 12:31:13
      * Date of code generation
     #include "temporal_example_target.h"
     #include "chart.h"
                                              (0)
     #define IN NO ACTIVE CHILD
                                              1
     #define IN cl sl A
                                              2
     #define IN c1 s2 B
                                              3
     #define IN cl s3 C
     #define event CLK
     static SFchartInstanceStruct chartInstance;
     void chart(void);
     void chart(void)
         /* During: Chart */
         if(_sfEvent_temporal_example_ == event_CLK) {
           if(chartInstance.Counters.il<0xfU) {</pre>
             chartInstance.Counters.il++;
           }
         if(chartInstance.State.is_active_chart == 0) {
           /* Entry: Chart */
           chartInstance.State.is_active_chart = 1;
           /* Entry: A */
           chartInstance.State.is_chart = IN_cl_sl_A;
           chartInstance.Counters.il=0;
          else {
(940 - [ switch(chartInstance.State.is_chart) {
            case IN cl sl A:
             /* During: A */
             if((_sfEvent_temporal_example_ == event_CLK) &&
               (chartInstance.Counters.il >= 3)) {
                /* Exit: A */
                /* Entry: B */
               chartInstance.State.is_chart = IN_c1_s2_B;
                chartInstance.Counters.i1=0;
             }
             break;
            case IN cl s2 B:
             /* During: B */
             if((_sfEvent_temporal_example_ == event_CLK) &&
               (chartInstance.Counters.il >= 10)) {
               /* Exit: B */
                /* Entry: C */
               chartInstance.State.is_chart = IN_c1_s3_C;
               chartInstance.Counters.i1=0;
```

Figure 19A

```
break;
       case IN_cl_s3_C:
        /* During: C */
        if((_sfEvent_temporal_example_ == event_CLK) &&
         (chartInstance.Counters.il >= 5)) {
          /* Exit: C */
          /* Entry: A */
          chartInstance.State.is_chart = IN_c1_s1_A;
          chartInstance.Counters.il=0;
        break;
    }
  }
}
void broadcast_chart_CLK(void)
  {
    int8 T previousEvent;
    previousEvent = _sfEvent_temporal_example_;
    sfEvent temporal example = event CLK;
    _sfEvent_temporal_example_ = previousEvent;
}
```

Figure 19B



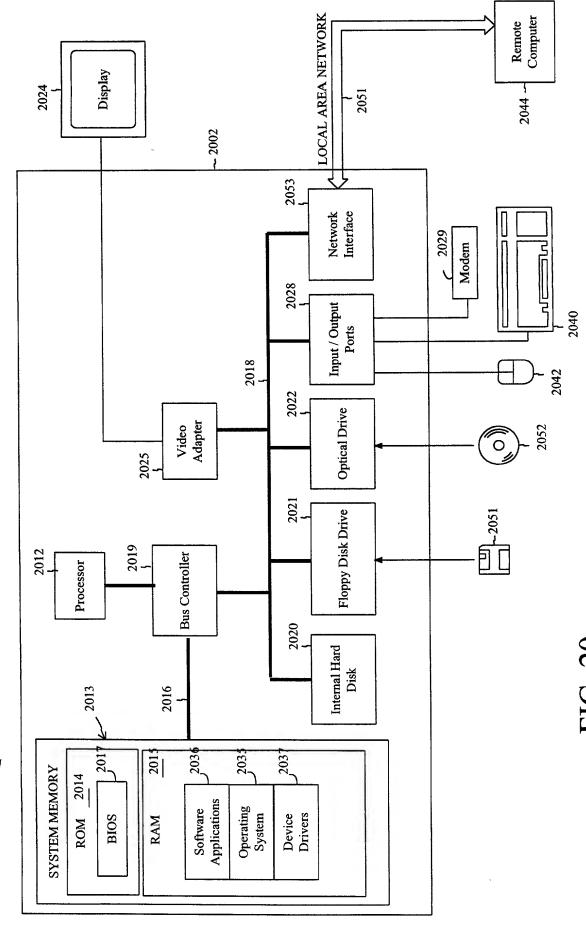


FIG. 2(